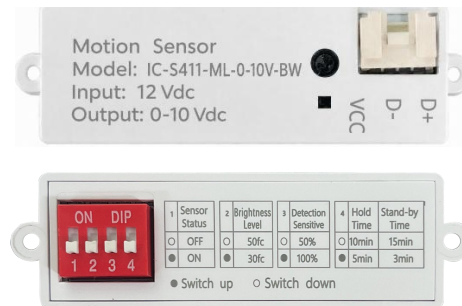


Product features

- Doppler radar with digital algorithm for motion & micro-motion detection
- High-gain microstrip antenna with low sidelobes and less back radiation
- Strong penetration through glass, plastic, fabric, ceramic, thin wood, etc.
- Supports 4-position DIP switch for function adjustment
- Equipped with ambient light detection capability
- Mounting height up to 5 meters
- 0-10 V Control Output

0/1-10V



Product specifications

111172 IC-S411-ML-0-10V-BW

Input voltage	Standby current	Radar Beam Angle	RF transmit power	Dimension L x W x H
12 VDC $\pm$ 10 %	Typ. 20 mA	105° x 105°	-4 dBm	2.45 x 0.74 x 0.2 in (62.2 x 19.0 x 8.1 mm)

Technical specifications

Electrical parameter

Operating voltage	12 VDC $\pm$ 10 %
Standby current	Typ. 0.24 W @ 12 V
Max 0-10 V sinking current	10 mA
Power supply type	Drive separated supply
RF transmit power	-4 dBm

Sensor specifications

Radar axial distance (mounting height)	Max 5 m
Horizontal -3dB beamwidth/E-Plane	105°
Vertical -3dB beamwidth/H-Plane	105°
Detection Distance	2 ... 5 m (wall-mounted, 1.5 m height, 2-level adjustable)
Detection Radius	2 ... 4 m (ceiling-mounted, 3 m height, 2-level adjustable)
Operating Frequency	5.725 ... 5.875 GHz (ISM band)
Hold Time	Full brightness 5 ... 10 min / Dim brightness 3 ... 5 min (2-level adjustable)

Control

Control output	0-10 V
Dimmable	Yes
Type of installation	Luminaire integration

Environmental specifications

Housing Material	PC
Color	White
Operating temperature	-25 ... +70 °C
Storage temperature	-40 ... +85 °C
Working humidity	10 ... 90 %
Storage humidity	5 ... 95 %

Certificates & standards

Warranty	5 years
Certification	/
Type of protection	IP20

Dimensions

Housing dimensions

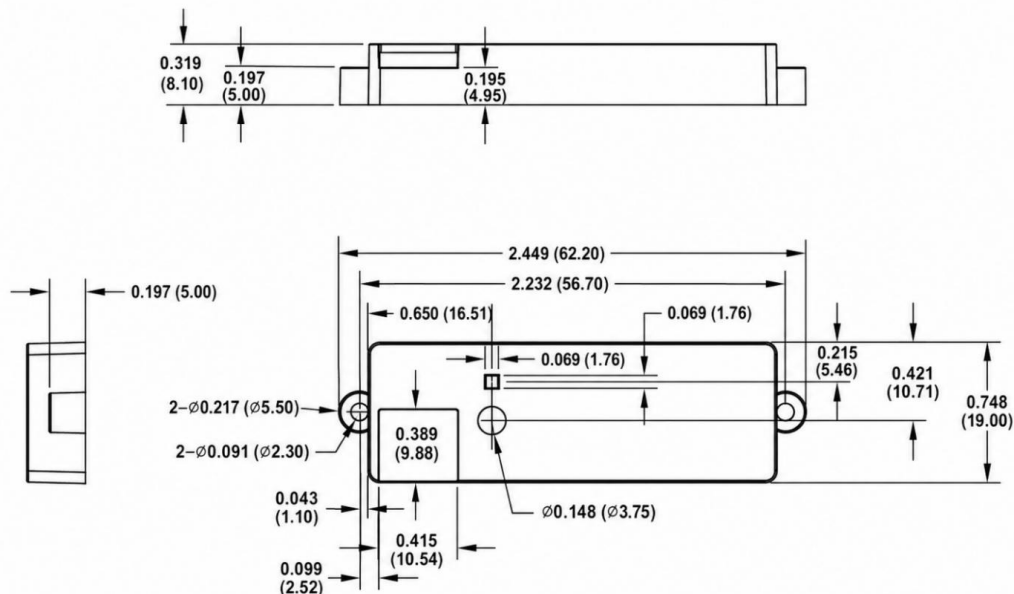
Length(L)	2.45 in (62.2 mm)
Width(W)	0.75 in (19.0 mm)
Height (H)	0.32 in (8.1 mm)

All dimensions are in inches (mm).
Tolerance: ± 0.012 in (± 0.3 mm).

Packaging details

Packing units	400 pcs
Carton size	440 x 370 x 200 mm
Carton weight	0.550 kg
Product weight	0.009 kg

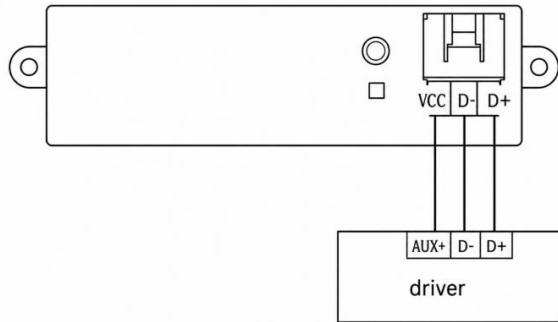
The final quantity per carton shall be subject to the actual packing arrangement.



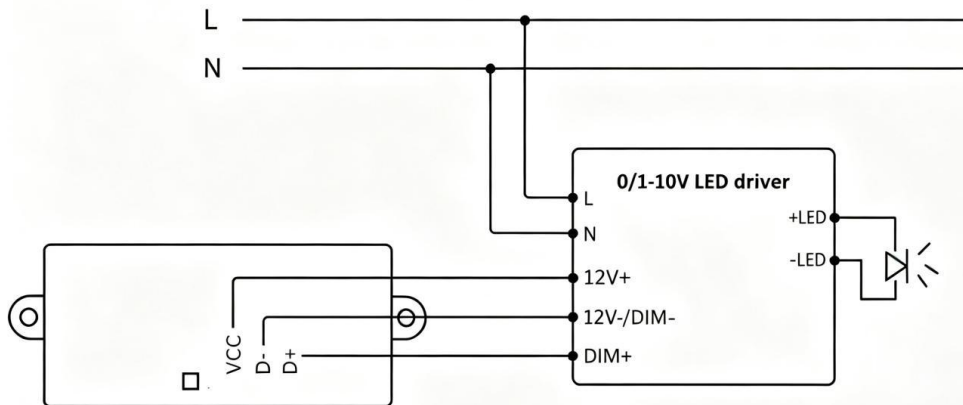
All dimensions are in inches (mm).
Tolerance: ± 0.012 in (± 0.3 mm).

Applicable Wiring Diagram

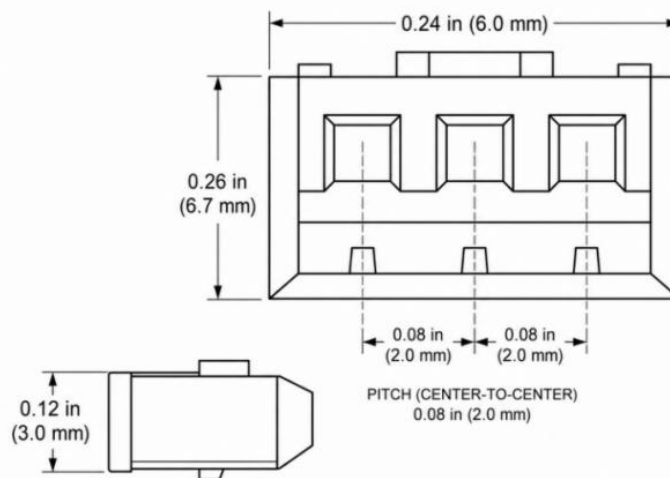
Wiring Diagram for 0-10 V Mode-Sensor Powered by Driver AUX Output



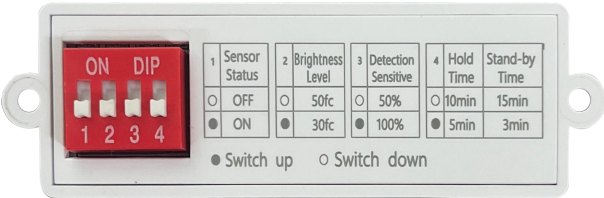
Definition	Description
D+	0-10 V DIM+
D-	Common Ground 0-10 V DIM-/ AUX Power Negative
AUX+	+12 VDC /AUX+



Mating Male Connector Specifications



DIP Switch Function Description



Definition	Description			
	1	2	3	4
DIP Switch	Sensor Status	Brightness	Detection Distance	Delay & HoldTime
○	OFF	50 fc	50 %	10 min & 15 min
●	ON	30 fc	100 %	5 min & 3 min

Coverage

